```
//Created by ChrisMoody on 11/03/2014...Original PPO Code Created by TheLark
2
    //Thanks to coondawg71 and ChartArt for Great Insights
    //Great for Spotting Tops & Bottoms.
3
    study(title = "CM_Laguerre PPO PercentileRank Mkt Tops & Bottoms", shorttitle="CM_Laguerre PPO PctRank
4
    pctile = input(90, title="Percentile Threshold Extreme Value, Exceeding Creates Colored Histogram")
5
    wrnpctile = input(70, title="Percentile Threshold Warning Value, Exceeding Creates Colored Histogram")
6
    Short = input(0.4, title="PPO Setting")
7
8
    Long = input(0.8, title="PPO Setting")
    lkbT = input(200,title="Look Back Period For 'Tops' Percent Rank is based off of?")
    lkbB = input(200,title="Look Back Period For 'Bottoms' Percent Rank is based off of?")
10
11
    sl=input(true,title="Show Threshold Line?")
    swl=input(true,title="Show Warning Threshold Line?")
12
13
    //Laguerre PPO Code from TheLark
14
    lag(g, p) \Rightarrow
15
        L0 = (1 - g)*p+g*nz(L0[1])
16
        L1 = -g*L0+nz(L0[1])+g*nz(L1[1])
17
        L2 = -g*L1+nz(L1[1])+g*nz(L2[1])
18
        L3 = -g*L2+nz(L2[1])+g*nz(L3[1])
19
        f = (L0 + 2*L1 + 2*L2 + L3)/6
20
21
    lmas = lag(Short, hl2)
22
    lmal = lag(Long, hl2)
23
24
    pctileB = pctile * -1
25
    wrnpctileB = wrnpctile * -1
26
27
    //PPO Plot
28
    ppoT = (lmas-lmal)/lmal*100
29
    ppoB = (lmal - lmas)/lmal*100
30
    //PercentRank of PPO
31
    pctRankT = percentrank(ppoT, 1kbT)
32
    pctRankB = percentrank(ppoB, lkbB) * -1
33
34
    //Color Definition of Columns
    colT = pctRankT >= pctile ? red : pctRankT >= wrnpctile and pctRankT < pctile ? orange : gray</pre>
35
    colB = pctRankB <= pctileB ? lime : pctRankB <= wrnpctileB and pctRankB > pctileB ? green : silver
36
    //Plot Statements.
37
    plot(pctRankT,title="Percentile Rank Columns", color=colT, style=columns, linewidth=2)
38
    plot(sl and pctile ? pctile : na, title="Extreme Move Percentile Threshold Line", color=red, style=lir
39
    plot(swl and wrnpctile ? wrnpctile : na, title="Warning Percentile Threshold Line", color=orange, styl
40
41
    plot(pctRankB,title="Percentile Rank Columns", color=colB, style=columns, linewidth=2)
42
43
    plot(sl and pctileB ? pctileB : na, title="Extreme Move Percentile Threshold Line", color=lime, style=
    plot(swl and wrnpctileB ? wrnpctileB : na, title="Warning Percentile Threshold Line", color=green, sty
44
    plot(0, title="0 Line Circles Plot", style=circles, linewidth=4, color=silver)
45
    plot(0, title="0 Line-Line Plot", style=linebr, linewidth=4, color=gray)
```

PDF document made with CodePrint using Prism

1 of 1 2/5/2024, 12:13 PM